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Pycalculix - Build FEA Models in Python - Justin Black

Pycalculix is a tool I wrote which lets users build, solve, and query mechanical engineering models of parts. The tool is a Python3 library, which uses the Calculix program to run and solve finite element analysis models.

Calculix - Wikipedia

CalculiX is a free and open-source finite-element analysis application that uses an input format similar to Abaqus. It has an implicit and explicit solver (CCX) written by Guido Dhondt and a pre- and post-processor (CGX) written by Klaus Wittig. The original software was written for the Linux operating system.

Finding the Natural Frequency of a Beam - Justin Black

The lowest natural frequency for a cantilevered beam was found using free finite element analysis software. Results were within 2% of the hand calculation.

CalculiX: A Three-Dimensional Structural Finite Element ...

For a reference describing the theory behind CalculiX CrunchiX the user is referred to: Dhondt, G. The Finite Element Method for Three-Dimensional Thermomechanical Applications, Wiley, 2004.